

平成 29 年度

第 8 回 先端エネルギー理工学セミナーのお知らせ

Seminar on Advanced Energy Engineering Science

下記のとおり、先端エネルギー理工学セミナーを開催致します。通常通り単位取得の一環になりますので、奮って参加いただきますよう、ご案内申し上げます。

記

対象：大学院学生(修士、博士) / For master students and Ph.D. students

日時：2018年3月6日(火) 14:50-16:20 / March 6, 2018 time: 14:50-16:20

場所：総合理工学府 H 棟 2 階講義室 / Lecture Room on 2F in H building

講演者：Julian Mak
Oxford University, Department of Physics

講演題目：Shear instabilities in incompressible magnetohydrodynamics

The problem of shear flow instability and nonlinear development in incompressible homogeneous 2d MHD is revisited. The instability mechanism is re-interpreted as a pair of resonating vorticity waves, analogous to barotropic/baroclinic instabilities that occurs in more conventional rotating stratified fluid dynamics, in contrast to an explanation based on negative energy waves. The subsequent nonlinear development of said instabilities manifest as Kelvin-Helmholtz billows, but the eddy may transition to turbulence and disrupt the mean state through magnetic feedbacks, when it is otherwise nonlinearly stable in the absence of a magnetic field. An analytical estimate based on the physical mechanism for this transition is given, supported by appropriate direct numerical simulations.

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Not only students for Department of Advanced Energy Engineering Science but other departments' students are also welcomed to audit the seminars.

*Recognition of credit for the Special Lecture 1st<M3901> is only applicable for seminars conducted in English.

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